

DOCKET NO.: 09/915,459



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Paul A. Kline

Confirmation No.: 7013

Application No.: 09/915,459

Group Art Unit: 2872

Filing Date: July 26, 2001

Examiner: Alessandro V. Amari

**For: POWER LINE COMMUNICATION SYSTEM AND METHOD OF USING
THE SAME**

**EXPRESS MAIL LABEL NO: EL 999294789US
DATE OF DEPOSIT: March 18, 2004**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

- ☐ In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or

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before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

- ☒ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:

☐ Certification in Accordance with § 1.97(e) is attached;
or

☒ The fee of \$180.00 as set forth in § 1.17(p) is attached.

- ☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of \$180.00 as set forth in § 1.17(p).

- ☒ Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.

- ☐ Copies of references listed on the attached Form PTO-1449 are enclosed herewith EXCEPT THAT:

- ☐ Copies of references listed on the attached Form PTO 1449 are not required to be submitted pursuant to the June 30, 2003 recent revisions to 37 CFR § 1.98(a)(2)(i).


- ☐ In view of the voluminous nature of references [list as appropriate], and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.
- ☐ In accordance with § 1.98(d), copies of the following references listed on the attached Form PTO-1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. § 120 have been made in the instant application:
- ☐ Copies of references [list as appropriate] listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior Application No.

, filed .

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

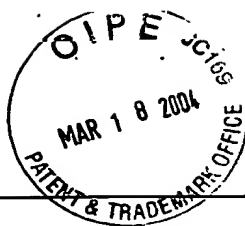
English abstracts have been provided for those listed references which are not in the English language.

Date: March 18, 2004



Vincent J. Roccia
Registration No. 43,887

WOODCOCK WASHBURN LLP
One Liberty Place - 46th Floor
Philadelphia, PA 19103
Telephone: (215) 568-3100
Facsimile: (215) 568-3439



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Form PTO-1449 ModifiedList of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)U.S. Department of Commerce
Patent and Trademark OfficeDocket No.
CRNT-0018Serial No.
09/915,459Applicant
Paul A. KlineFiling Date
July 26, 2001Group
2872**U. S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Name	Class	Subclass
	156	1,547,242	07/28/25	M. E. Strieby	340	310.03
	157	2,577,731	12/11/51	F.C. Berger	179	2.5
	158	3,369,078	02/13/68	Stradley	179	2.5
	159	3,605,009	09/14/71	Enge	323	93
	160	3,641,536	02/08/72	Prosprich	340	870.15
	161	3,696,383	10/03/72	Oishi et al.	340	310
	162	3,846,638	11/05/74	Wetherell	307	3
	163	3,973,087	08/03/76	Fong	179	170 R
	164	3,993,110	01/18/77	Whyte	179	170 J
	165	4,053,876	10/11/77	Taylor	340	529
	166	4,250,489	02/10/81	Dudash et al.	340	147 T
	167	4,263,549	04/21/81	Toppeto	324	127
	168	4,359,644	11/16/82	Foord	307	40
	169	4,367,522	01/04/63	Forstbauer et al.	363	137
	170	4,383,243	05/10/83	Krügel et al.	340	310 R
	171	4,386,436	5/1983	Kocher et al.	455	151.4
	172	4,409,542	10/11/83	Becker et al.	324	57 Q
	173	4,413,250	11/01/83	Porter et al.	340	310.01
	174	4,419,621	12/06/83	Becker et al.	324	51
	175	4,471,399	09/11/84	Udren	361	64
	176	4,475,209	10/02/84	Udren	375	4
	177	4,479,033	10/23/84	Brown et al.	179	2.51

EXAMINER**DATE CONSIDERED**

**Form PTO-1449 Modified**

List of Patent and Publications
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U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
	178	4,517,548	05/14/85	Ise et al.	340	310 R
	179	4,599,598	07/08/86	Komoda et al.	340	310 A
	180	4,652,855	03/1987	Weikel	340	310
	181	4,701,945	10/20/87	Pedigo	379	66
	182	4,724,381	02/09/88	Crimmins	324	127
	183	4,772,870	09/20/88	Reyes	340	310 R
	184	4,904,996	02/27/90	Fernandes	340	870.07
	185	4,912,553	03/27/90	Pal et al.	358	86
	186	5,066,939	11/19/91	Mansfield, Jr.	340	310 R
	187	5,068,890	11/26/91	Nilssen	379	90
	188	5,151,838	09/29/92	Dockery	340	310 R
	189	5,410,720	04/25/95	Osterman	725	150
	190	5,426,360	06/20/95	Maraio et al.	324	126
	191	5,477,091	12/19/95	Fiorina et al.	307	66
	192	5,533,054	07/02/96	DeAndrea et al.	375	286
	193	5,598,406	01/28/97	Albrecht et al.	370	296
	194	5,818,821	10/06/98	Schurig	370	293
	195	5,870,016	02/09/99	Shresthe	340	310.01
	196	5,952,914	09/14/99	Wynn	340	310.01
	197	5,994,998	11/30/99	Fisher et al.	340	310.01
	198	5,994,999	11/30/99	Ebersohl	340	310.01
	199	6,037,857	03/14/00	Behrens et al.	340	310.03

EXAMINER**DATE CONSIDERED**

**Form PTO-1449 Modified**

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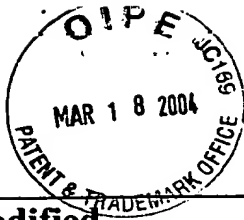
Filing Date
July 26, 2001

Group
2872

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
	200	6,140,911	10/31/00	Fisher et al.	340	310.01
	201	6,141,634	10/31/00	Flint et al.	703	018
	202	6,229,434 B1	05/08/01	Knapp et al.	340	310.01

EXAMINER**DATE CONSIDERED**

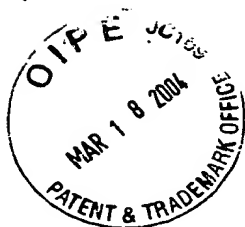


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	Applicant Paul A. Kline	
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FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
	203	100 08 602 A1	06/07/01	DE	X abstract	
	204	100 47 648 A1	04/25/02	DE	X abstract	
	205	197 28 270 A1	01/07/99	DE	X abstract	
	206	0 141 673 A2	05/15/85	EP	X	
	207	0 822 721 A2	02/04/98	EP	X abstract	
	208	0 933 883 A2	08/04/99	EP	X abstract	
	209	1 043 866 A2	10/11/00	EP	X abstract	
	210	1 075 091 A1	02/07/01	EP	X abstract	
	211	2 122 920 A1	12/16/98	ES	X abstract	
	212	2 326 087	07/15/76	FR	X abstract	
	213	1 548 652	07/18/79	GB	X	
	214	2 101 857 A	01/19/83	GB		X
	215	276741	07/28/98	NZ		
	216	84/01481 A1	04/12/84	WO	X	
	217	90/13950 A2	11/15/90	WO	X	
	218	92/16920 A1	10/01/92	WO		
	219	93/07693 A1	04/15/93	WO		
	220	99/59261	11/18/99	WO	X abstract	
	221	00/16496	03/23/00	WO	X abstract	
	222	00/60822	10/12/00	WO	X abstract	
	223	01/08321	02/01/01	WO	X abstract	
	224	01/50625	07/12/01	WO	X abstract	
	225	01/50628	07/12/01	WO	X abstract	
	226	01/50629	07/12/01	WO	X abstract	

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	Applicant Paul A. Kline	
	Filing Date July 26, 2001	Group 2872

Examiner Initial		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	227	LONWORKS Engineering Bulletin, "Demand Side Management with LONWORKS® Power Line Transceivers," December 1996 , 36 pages
	228	HomePlug™Powerline Alliance, HomePlug Initial Draft Medium Interface Specification, May 19, 2000 , 109 pages
	229	HomePlug™Powerline Alliance, HomePlug 0.5 Draft Medium Interface Specification, November 28, 2000 , 133 pages
	230	HomePlug™Powerline Alliance, HomePlug Initial Draft Medium Interface Specification, July 27, 2000 , 109 pages
	231	HomePlug™Powerline Alliance, HomePlug 1.01 Specification, December 1, 2001 , 139 pages
	232	Summary of an IEEE Guide for Power-Line Carrier Applications, A Report by the Power System Communications Committee, <i>IEEE Transactions on Power Apparatus and Systems</i> , Vol. PAS-99, No. 6, Nov./Dec. 1980
	233	De Wilde, W. R. et al., "Upwards to a Reliable Bi-Directional Communication Link on the LV Power Supplies for Utility Services: Field Tests in Belgium," pp. 168-172
	234	Tanaka, M., "Transmission Characteristics of a Power Line Used for Data Communications at High Frequencies," <i>IEEE Transactions on Consumer Electronics</i> , February 1989, Vol. 35, No. 1, pp. 37-42
	235	Hasler, E. F. et al., "Communication Systems Using Bundle Conductor Overhead Power Lines," <i>IEEE Transactions on Power Apparatus and Systems</i> , March/April 1975, Vol. PAS-94, No. 2, pp. 344-349
	236	IEEE Guide for Power-Line Carrier Applications, ANSI/IEEE Std 643-1980, ©1980 by The Institute of Electrical and Electronics Engineers, Inc., pp. 1-80
	237	Hatori, M. et al., "HOME INFORMATIZATION AND STANDARDIZATION OF HOME BUS," <i>IEEE Transactions on Consumer Electronics</i> , August 1986, Vol. CE-32, No. 3, pp. 542-549
	238	Hunt, J. M. et al., "Electrical Energy Monitoring and Control System for the Home," <i>IEEE Transactions on Consumer Electronics</i> , August 1986, Vol. CE-32, No. 3, pp. 578-583
	239	Gutzwiller, F. W. et al., "Homenet: A Control Network for Consumer Applications," <i>IEEE Transactions on Consumer Electronics</i> , August 1983, Vol. CE-29, No. 3, pp. 297-304
	240	Burrascano, P. et al., "Digital Signal Transmission on Power Line Carrier Channels: An Introduction," <i>IEEE Transactions on Power Delivery</i> , January 1987, Vol. PWRD-2, No. 1, pp. 50-56

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Examiner Initial	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	241	Burr, A. G. et al., "Effect of HF Broadcast Interference on PowerLine Telecommunications Above 1 Mhz," ©1998 IEEE, pp. 2870-2875
	242	Onunga, J. et al., "Distribution Line Communications Using CSMA Access Control with Priority Acknowledgements," IEEE Transactions on Power Delivery, April 1989, Vol. 4, No. 2, pp. 878-886
	243	Tanaka, M., "High Frequency Noise Power Spectrum, Impedance and Transmission Loss of Power Line in Japan on Intrabuilding Power Line Communications," IEEE Transactions on Consumer Electronics, May 1988, Vol. 34, No. 2, pp. 321-326
	244	Meng, H. et al., "A Transmission Line Model for High-Frequency Power Line Communication Channel," ©2002 IEEE, pp. 1290-1295
	245	Burrascano, P. et al., "Performance Evaluation of Digital Signal Transmission Channels on Coronating Power Lines," ©1988 IEEE, pp. 365-368
	246	DiClementi, D. A. et al., "Electrical Distribution System Power Line Characterization," ©1996 IEEE, pp. 271-276
	247	Abraham, K. C. et al., "A Novel High-Speed PLC Communication Modem," IEEE Transactions on Power Delivery, October 1992, Vol. 7, No. 4, pp. 1760-1768
	248	Yoshitoshi, M. et al., "PROPOSED INTERFACE SPECIFICATIONS FOR HOME BUS," IEEE Transactions on Consumer Electronics, August 1986, Vol. CE-32, No. 3, pp. 550-557
	249	O'Neal, Jr., J. B., "The Residential Power Circuit as a Communication Medium," IEEE Transactions on Consumer Electronics, August 1986, Vol. CE-32, No. 3, pp. 567-577
	250	Written Opinion dated August 20, 2003, from PCT/US02/04310
	251	Written Opinion dated March 21, 2003, from PCT/US02/04300

EXAMINER	DATE CONSIDERED
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